

```

my-pod          1/1      Running          1 (49s ago)    5h23m
my-rs-f5dlg    0/1      ContainerCreating 0              23s
my-rs-hdkdv    0/1      ContainerCreating 0              23s
my-rs-lqn4z    0/1      ContainerCreating 0              23s
my-rs-r2kgw    0/1      ContainerCreating 0              23s
arunesh@Arunesh:~$ kubectl apply re-test.yaml
error: Unexpected args: [re-test.yaml]
See 'kubectl apply -h' for help and examples
arunesh@Arunesh:~$ kubectl get pod -o wide
NAME          READY   STATUS          RESTARTS   AGE   IP           NODE          NOMINATED NODE   READINESS GATES
my-pod        1/1     Running         1 (104s ago)  5h24m  10.244.0.6   minikube      <none>           <none>
my-rs-f5dlg   0/1     ContainerCreating 0           78s    <none>       minikube      <none>           <none>
my-rs-hdkdv   0/1     ContainerCreating 0           78s    <none>       minikube      <none>           <none>
my-rs-lqn4z   0/1     ContainerCreating 0           78s    <none>       minikube      <none>           <none>
my-rs-r2kgw   0/1     ContainerCreating 0           78s    <none>       minikube      <none>           <none>
arunesh@Arunesh:~$ sudo nano deploy.yaml
arunesh@Arunesh:~$ ls
DevOps  deploy.yaml  docker-compose.yaml  pod.yaml  re-test.yaml  simple-web-app
arunesh@Arunesh:~$ kubectl apply -f deploy.yaml
deployment.apps/my-deploy created
service/my-service created
arunesh@Arunesh:~$ minikube service my-service
-----
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | my-service | 7070        | http://192.168.49.2:30002      |
-----
🌟 Starting tunnel for service my-service.
-----
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | my-service |             | http://127.0.0.1:34041         |
-----
🌐 Opening service default/my-service in default browser...
👉 http://127.0.0.1:34041
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

```

```

  • Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: default-storageclass, storage-provisioner
👉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
arunesh@Arunesh:~$ kubectl apply -f re-test.yaml
replicaset.apps/my-rs created
arunesh@Arunesh:~$ kubectl get pods
NAME          READY   STATUS          RESTARTS   AGE
my-pod        1/1     Running         1 (41s ago)  5h23m
my-rs-f5dlg   0/1     ContainerCreating 0           15s
my-rs-hdkdv   0/1     ContainerCreating 0           15s
my-rs-lqn4z   0/1     ContainerCreating 0           15s
my-rs-r2kgw   0/1     ContainerCreating 0           15s
arunesh@Arunesh:~$ kubectl get pods
NAME          READY   STATUS          RESTARTS   AGE
my-pod        1/1     Running         1 (45s ago)  5h23m
my-rs-f5dlg   0/1     ContainerCreating 0           19s
my-rs-hdkdv   0/1     ContainerCreating 0           19s
my-rs-lqn4z   0/1     ContainerCreating 0           19s
my-rs-r2kgw   0/1     ContainerCreating 0           19s
arunesh@Arunesh:~$ kubectl get pods
NAME          READY   STATUS          RESTARTS   AGE
my-pod        1/1     Running         1 (46s ago)  5h23m
my-rs-f5dlg   0/1     ContainerCreating 0           20s
my-rs-hdkdv   0/1     ContainerCreating 0           20s
my-rs-lqn4z   0/1     ContainerCreating 0           20s
my-rs-r2kgw   0/1     ContainerCreating 0           20s
arunesh@Arunesh:~$ kubectl get pods
NAME          READY   STATUS          RESTARTS   AGE
my-pod        1/1     Running         1 (47s ago)  5h23m
my-rs-f5dlg   0/1     ContainerCreating 0           21s
my-rs-hdkdv   0/1     ContainerCreating 0           21s
my-rs-lqn4z   0/1     ContainerCreating 0           21s
my-rs-r2kgw   0/1     ContainerCreating 0           21s
arunesh@Arunesh:~$ kubectl get pods
NAME          READY   STATUS          RESTARTS   AGE
my-pod        1/1     Running         1 (47s ago)  5h23m
my-rs-f5dlg   0/1     ContainerCreating 0           21s
my-rs-hdkdv   0/1     ContainerCreating 0           21s
my-rs-lqn4z   0/1     ContainerCreating 0           21s
my-rs-r2kgw   0/1     ContainerCreating 0           21s

```

```

arunesh@Arunesh:~$ ls
DevOps  docker-compose.yaml  pod.yaml  re-test.yaml  simple-web-app
arunesh@Arunesh:~$ kubectl apply -f re-test.yaml
error: error validating "re-test.yaml": error validating data: apiVersion not set; if you choose to ignore these errors, turn validation off with --validate=false
arunesh@Arunesh:~$ cat re-test.yaml
kind: ReplicaSet
metadata:
  name: my-rs
  labels:
    name: my-rs
spec:
  replicas: 4
  selector:
    matchLabels:
      apptype: web-backend
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
        - name: my-app
          image: arunesh2005/simpleapplication
          ports:
            - containerPort: 8080
arunesh@Arunesh:~$ sudo nano re-test.yaml
[sudo] password for arunesh:
Sorry, try again.
arunesh@Arunesh:~$ kubectl apply -f re-test.yaml
error: error validating "re-test.yaml": error validating data: failed to download openapi: Get "https://127.0.0.1:32769/openapi/v2?timeout=32s": dial tcp 127.0.0.1:32769: connect: connection refused; if you choose to ignore these errors, turn validation off with --validate=false
arunesh@Arunesh:~$ minikube start
👉 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔧 Using the docker driver based on existing profile
🔥 Starting "minikube" primary control-plane node in "minikube" cluster
📶 Pulling base image v0.0.46 ...
🔄 Restarting existing docker container for "minikube" ...
🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...

arunesh@Arunesh:~$ ls
DevOps  docker-compose.yaml  simple-web-app
arunesh@Arunesh:~$ kubectl get pod -o wide
NAME      READY   STATUS    RESTARTS   AGE   IP            NODE       NOMINATED NODE   READINESS GATES
my-pod    1/1     Running   0           9m47s  10.244.0.4    minikube   <none>           <none>
arunesh@Arunesh:~$ sudo nano pod.yaml
[sudo] password for arunesh:
arunesh@Arunesh:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    1/1     Running   0           60m
arunesh@Arunesh:~$ sudo nano pod.yaml
arunesh@Arunesh:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    1/1     Running   0           62m
arunesh@Arunesh:~$ kubectl exec -it my-pod
error: you must specify at least one command for the container
arunesh@Arunesh:~$ kubectl exec -it my-pod -- bin/bash
root@my-pod:/# l
bash: l: command not found
root@my-pod:/# ls
bin  boot  dev  docker-entrypoint.d  docker-entrypoint.sh  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  s
root@my-pod:/# cd usr
root@my-pod:/usr# ls
bin  games  include  lib  lib64  libexec  local  sbin  share  src
root@my-pod:/usr# cd local
root@my-pod:/usr/local# ^C
root@my-pod:/usr/local# ^C
root@my-pod:/usr/local# exit
exit

```

```

arunesh@Arunesh:~$ kubectl describe pod my-pod
Name: my-pod
Namespace: default
Priority: 0
Service Account: default
Node: minikube/192.168.49.2
Start Time: Thu, 20 Mar 2025 04:39:31 +0000
Labels: run=my-pod
Annotations: <none>
Status: Running
IP: 10.244.0.4
IPs:
  IP: 10.244.0.4
Containers:
  my-pod:
    Container ID: docker://e576710bd5e50daae7808cda39897f65f59820e3e478636c684a945b9c7a1136
    Image: nginx
    Image ID: docker-pullable://nginx@sha256:124b44bfc9ccd1f3cedf4b592d4d1e8bddb78b51ec2ed5056c52d3692baebc19
    Port: 80/TCP
    Host Port: 0/TCP
    State: Running
      Started: Thu, 20 Mar 2025 04:40:52 +0000
    Ready: True
    Restart Count: 0
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-m7tf8 (ro)
Conditions:
  Type                               Status
  PodReadyToStartContainers          True
  Initialized                         True
  Ready                              True
  ContainersReady                    True
  PodScheduled                       True
Volumes:
  kube-api-access-m7tf8:
    Type: Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
arunesh@Arunesh:~$ kubectl run my-pod --image=nginx --port=80
pod/my-pod created
arunesh@Arunesh:~$ kubectl get node
NAME      STATUS   ROLES    AGE   VERSION
minikube  Ready    control-plane  22h   v1.32.0
arunesh@Arunesh:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    0/1     ContainerCreating  0          61s
arunesh@Arunesh:~$ kubectl get pod -o wide
NAME      READY   STATUS    RESTARTS   AGE   IP           NODE      NOMINATED NODE   READINESS GATES
my-pod    1/1     Running   0          94s   10.244.0.4   minikube  <none>            <none>
arunesh@Arunesh:~$ kubectl logs my-pod
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/03/20 04:40:52 [notice] 1#1: using the "epoll" event method
2025/03/20 04:40:52 [notice] 1#1: nginx/1.27.4
2025/03/20 04:40:52 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/03/20 04:40:52 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/03/20 04:40:52 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/03/20 04:40:52 [notice] 1#1: start worker processes
2025/03/20 04:40:52 [notice] 1#1: start worker process 29
2025/03/20 04:40:52 [notice] 1#1: start worker process 30
2025/03/20 04:40:52 [notice] 1#1: start worker process 31
2025/03/20 04:40:52 [notice] 1#1: start worker process 32
2025/03/20 04:40:52 [notice] 1#1: start worker process 33
2025/03/20 04:40:52 [notice] 1#1: start worker process 34
2025/03/20 04:40:52 [notice] 1#1: start worker process 35
2025/03/20 04:40:52 [notice] 1#1: start worker process 36
2025/03/20 04:40:52 [notice] 1#1: start worker process 37
2025/03/20 04:40:52 [notice] 1#1: start worker process 38
2025/03/20 04:40:52 [notice] 1#1: start worker process 39
2025/03/20 04:40:52 [notice] 1#1: start worker process 40

```



31°C
Sunny



Search



```

arunesh@Arunesh:~$ minikube start
🐹 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔧 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
📶 Pulling base image v0.0.46 ...
🔄 Restarting existing docker container for "minikube" ...
🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: storage-provisioner, default-storageclass
🎉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

```

```

arunesh@Arunesh:~$ kubectl get pod
No resources found in default namespace.

```

```

arunesh@Arunesh:~$ docker images

```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
arunesh2005/simpleapplication	latest	8496158145dd	17 hours ago	326MB
arunesh2005/simpleapplication	<none>	d934fb48852e	17 hours ago	326MB
<none>	<none>	8918adc2891d	17 hours ago	326MB
<none>	<none>	76435f253459	17 hours ago	326MB
<none>	<none>	b317a1109b7f	17 hours ago	326MB
<none>	<none>	942535685e8e	17 hours ago	326MB
<none>	<none>	8a4a596c9091	17 hours ago	326MB
<none>	<none>	e460c86021a1	18 hours ago	326MB
<none>	<none>	079f5d5095b2	18 hours ago	326MB
<none>	<none>	a4c6c5329cc8	18 hours ago	326MB
<none>	<none>	85f479806b0f	18 hours ago	326MB
<none>	<none>	7b2dbb1b307e	18 hours ago	326MB
jenkins/jenkins	lts	6a44d1dd2d60	2 weeks ago	468MB
nginx	latest	53a18edff809	6 weeks ago	192MB
mysql	latest	fa262c3a6564	8 weeks ago	797MB
hello-world	latest	74cc54e27dc4	8 weeks ago	10.1kB
kickbase/stable	v0.0.46	e72c4cbe9b29	2 months ago	1.31GB
openjdk	17-jdk-alpine	264c9bdce361	3 years ago	326MB

```

arunesh@Arunesh:~$ kubectl run my-pod --image=nginx --port=80

```

```

pod/my-pod created

```

```

arunesh@Arunesh:~$ kubectl get node

```

NAME	STATUS	ROLES	AGE	VERSION
minikube	Ready	control-plane	22h	v1.32.0

```

arunesh@Arunesh:~$ minikube start
🐹 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔧 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
📶 Pulling base image v0.0.46 ...
🔄 Restarting existing docker container for "minikube" ...
🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: storage-provisioner, default-storageclass
🎉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

```

```

arunesh@Arunesh:~$ kubectl get pod
No resources found in default namespace.

```

```

arunesh@Arunesh:~$ docker images

```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
arunesh2005/simpleapplication	latest	8496158145dd	17 hours ago	326MB
arunesh2005/simpleapplication	<none>	d934fb48852e	17 hours ago	326MB
<none>	<none>	8918adc2891d	17 hours ago	326MB
<none>	<none>	76435f253459	17 hours ago	326MB
<none>	<none>	b317a1109b7f	17 hours ago	326MB
<none>	<none>	942535685e8e	17 hours ago	326MB
<none>	<none>	8a4a596c9091	17 hours ago	326MB
<none>	<none>	e460c86021a1	18 hours ago	326MB
<none>	<none>	079f5d5095b2	18 hours ago	326MB
<none>	<none>	a4c6c5329cc8	18 hours ago	326MB
<none>	<none>	85f479806b0f	18 hours ago	326MB
<none>	<none>	7b2dbb1b307e	18 hours ago	326MB
jenkins/jenkins	lts	6a44d1dd2d60	2 weeks ago	468MB
nginx	latest	53a18edff809	6 weeks ago	192MB
mysql	latest	fa262c3a6564	8 weeks ago	797MB
hello-world	latest	74cc54e27dc4	8 weeks ago	10.1kB
kickbase/stable	v0.0.46	e72c4cbe9b29	2 months ago	1.31GB
openjdk	17-jdk-alpine	264c9bdce361	3 years ago	326MB

```

arunesh@Arunesh:~$ kubectl run my-pod --image=nginx --port=80

```

```

pod/my-pod created

```

```

arunesh@Arunesh:~$ kubectl get node

```

NAME	STATUS	ROLES	AGE	VERSION
minikube	Ready	control-plane	22h	v1.32.0